

TABLE I-2. Preseason ocean abundance adult coho salmon stock forecasts in thousands of fish. (Page 1 of 2)

Production Source and Stock or Stock Group		2003	2004	2005	2006	2007	2008	2009	2010	2011	Methodology for 2010 Prediction and Source
<b>OPI Area (Total Abundance) (California and Oregon Coasts and Columbia River)</b>		984.6	777.9	542.9	460.2	849.2	276.1	1,284.7	556.0	624.5	Abundance of all OPI components based on cohort reconstruction including all fishery impacts using Mixed Stock Model (MSM); prior to 2008 only fishery impacts south of Leadbetter Point were used (traditional OPI accounting). OPITT, see Chapter III for details.
OPI Public	Hatchery	863.1	623.9	389.9	398.8	593.6	216.1	1,073.1	408.0	375.1	OPIH: 1969-2008 Columbia River jacks adjusted for delayed smolt releases and total OPI jacks regressed on 1970-2009 adults. Columbia/Coastal proportions based on jacks; Columbia early/late proportions based on jacks; Coastal N/S proportions based on smolts.
Columbia River Early		440.0	313.6	284.6	245.8	424.9	110.3	672.7	245.3	216.0	
Columbia River Late		377.9	274.7	78.0	113.8	139.5	86.4	369.7	144.2	146.5	
Coastal N. of Cape Blanco		29.3	16.6	11.5	8.6	7.0	1.7	7.3	4.4	3.6	
Coastal S. of Cape Blanco		15.9	19.0	15.8	30.6	22.2	17.7	23.4	14.1	9.0	
Lower Columbia River	Natural	NA	NA	NA	NA	21.5	13.4	32.7	15.1	22.7	Oregon: recent 3-year average; Washington: natural smolt production multiplied by 2007 brood marine survival rate. Abundance is subset of early/late hatchery abundance above.
Oregon Coast (OCN)	Natural	117.9	150.9	152.0	60.8	255.4	60.0	211.6	148.0	249.4	Rivers: Bakun upwelling anomaly, January sea surface temperature anomaly, and ocean regime index regressed on MSM ocean recruits; Lakes: recent three year average return.
STEP <sup>a/</sup>	Hatchery	3.6	3.1	1.0	0.6	0.2	-	-	-	-	No forecast since 2007; releases discontinued.
<b>Washington Coast</b>											A variety of methods were used for 2010, primarily based on smolt production and survival. See text in Chapter III for details.
Willapa	Natural	31.8	36.7	35.9	30.3	24.4	35.1	33.5	20.4	47.8	
	Hatchery	57.5	55.0	56.4	37.7	37.2	25.5	59.4	78.7	64.7	
Grays Harbor	Natural	58.0	117.9	91.1	67.3	59.4	42.7	59.2	67.9	89.1	
	Hatchery	64.0	67.8	54.4	52.4	74.0	53.1	63.5	33.3	44.0	
Quinalt	Natural	47.7	50.5	44.9	28.8	18.6	17.4	16.3	16.7	21.7	
	Hatchery	20.6	18.2	33.6	34.5	22.7	24.5	26.2	26.6	35.5	
Queets	Natural	24.0	18.5	17.1	8.3	13.6	10.2	31.4	21.8	13.3	
	Hatchery	24.9	17.1	17.4	11.9	19.1	10.3	13.5	11.9	16.3	
	Supplemental <sup>b/</sup>	1.3	2.5	2.4	-	-	-	-	-	-	
Hoh	Natural	12.5	8.1	7.6	6.4	5.4	4.3	9.5	7.6	11.6	
Quillayute Fall	Natural	24.9	21.2	18.6	14.6	10.8	10.5	19.3	22.0	28.2	
	Hatchery	15.2	20.9	22.1	10.4	18.1	13.0	39.5	17.7	31.0	

TABLE I-2. Preseason adult coho salmon stock forecasts in thousands of fish. (Page 2 of 2)

Production Source and Stock or Stock Group		2003	2004	2005	2006	2007	2008	2009	2010	2011	Methodology for 2010 Prediction and Source	
Quillayute Summer	Natural	1.8	1.1	0.8	1.1	1.0	1.1	2.2	2.8	2.8	A variety of methods were used for 2010, primarily based on smolt production and survival. See text in Chapter III and Joint WDFW and tribal annual reports on Puget Sound Coho Salmon Forecast Methodology for details.	
	Hatchery	5.4	6.1	6.1	4.0	6.4	4.2	12.9	3.2	5.4		
North Coast Independent Tributaries	Natural	14.8	12.7	8.5	8.1	3.2	3.2	11.1	4.2	21.6		
	Hatchery	11.0	4.3	5.6	3.2	4.1	5.0	14.1	5.7	11.9		
WA Coast Total	Natural	215.5	266.7	224.5	164.9	136.4	124.5	182.5	163.4	236.1		
	Hatchery	199.9	191.9	198.0	154.1	181.6	135.7	229.1	177.1	208.8		
<b>Puget Sound</b>												
Strait of Juan de Fuca	Natural	20.1	35.7	20.7	26.1	29.9	24.1	20.5	8.5	12.3		
	Hatchery	24.0 <sup>b/</sup>	28.7 <sup>b/</sup>	26.5 <sup>b/</sup>	20.5	18.4	9.5	7.0	7.8	15.2		
Nooksack-Samish	Natural	16.4	27.5	17.0	18.3	5.2	14.8	7.0	9.6	29.5		
	Hatchery	66.2	75.5	89.5	81.1	53.1	47.1	25.5	36.0	45.7		
Skagit	Natural	116.6	155.8	61.8	106.6	26.8	61.4	33.4	95.9	138.1		
	Hatchery	10.4	22.8	9.1	22.5	8.9	18.3	11.7	9.5	16.2		
Stillaguamish	Natural	37.8	38.0	56.7	45.0	69.2	31.0	13.4	25.9	66.6		
	Hatchery	1.3	0.5	0.2	1.2	0.0	0.1	0.0	5.4	0.6		
Snohomish	Natural	203.0	192.1	241.6	139.5	98.9	92.0	67.0	99.4	180.0		
	Hatchery	35.4	48.3	59.1	96.4	25.7	53.5	53.6	24.5	55.0		
South Sound	Natural	103.6	61.3	45.7	45.3	18.2	27.3	53.6	25.3	98.9		
	Hatchery	315.6	288.4	222.2	256.1	181.7	170.0	188.8	186.4	173.3		
Hood Canal	Natural	32.4	98.7	98.4	59.4	42.4	30.4	48.6	33.2	74.7		
	Hatchery	48.0 <sup>b/</sup>	43.1 <sup>b/</sup>	60.6 <sup>b/</sup>	57.9	54.8	35.0	52.0	51.2	74.9		
Puget Sound Total	Natural	529.9	609.2	541.9	440.2	290.6	281.0	243.5	297.8	600.1		
	Hatchery	501.0	507.3	465.2	535.7	342.6	333.5	338.6	320.8	380.9		

a/ Program ended in 2005.

b/ Strait of Juan de Fuca and Hood Canal Hatchery numbers in 2002-2005 include natural coho from secondary (hatchery) management zones.